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## Sun-3/80 System

### Hardware Read Me First

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Part No: 800-3252-10  
Revision A of 15 July 1989



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# Hardware Read Me First for the Sun-3/80

## 1. Introduction

The Sun Operating System (SunOS) is now pre-installed on the internal hard drive that is shipped with your Sun-3/80 system. The pre-installed SunOS does not support DES encryption of data files. If your application requires encryption capabilities, you must contact your local sales representative to request the encryption version of SunOS.

*NOTE The DES encryption capable version of SunOS is only available to domestic customers.*

Instructions for installing the DES encryption capable version of the operating system are provided in *Installing the SunOS*.

The pre-installed SunOS includes a core system that has all of the software needed for general use of the Sun-3/80 system. Instructions for using the Sunview Desktop and the other features included in a the preloaded Sun-3/80 system are provided in the *Sun System User's Guide*.

The MG3 High Resolution Frame Buffer is now available for use in the Sun-3/80 System. The installation procedures for this frame buffer are provided in Section 5 of this RMF.

## 2. Starting Up a Pre-installed Sun-3/80

Figure 1 is a summary of the startup procedure.

1. To power up a pre-installed Sun-3/80 system follow the procedure described in the *Sun-3/80 Installation Manual* until the banner screen appears on the workstation:

Self-test Completed Successfully.

Sun Workstation, Model Sun-3/80 Series.

Type-4 keyboard.

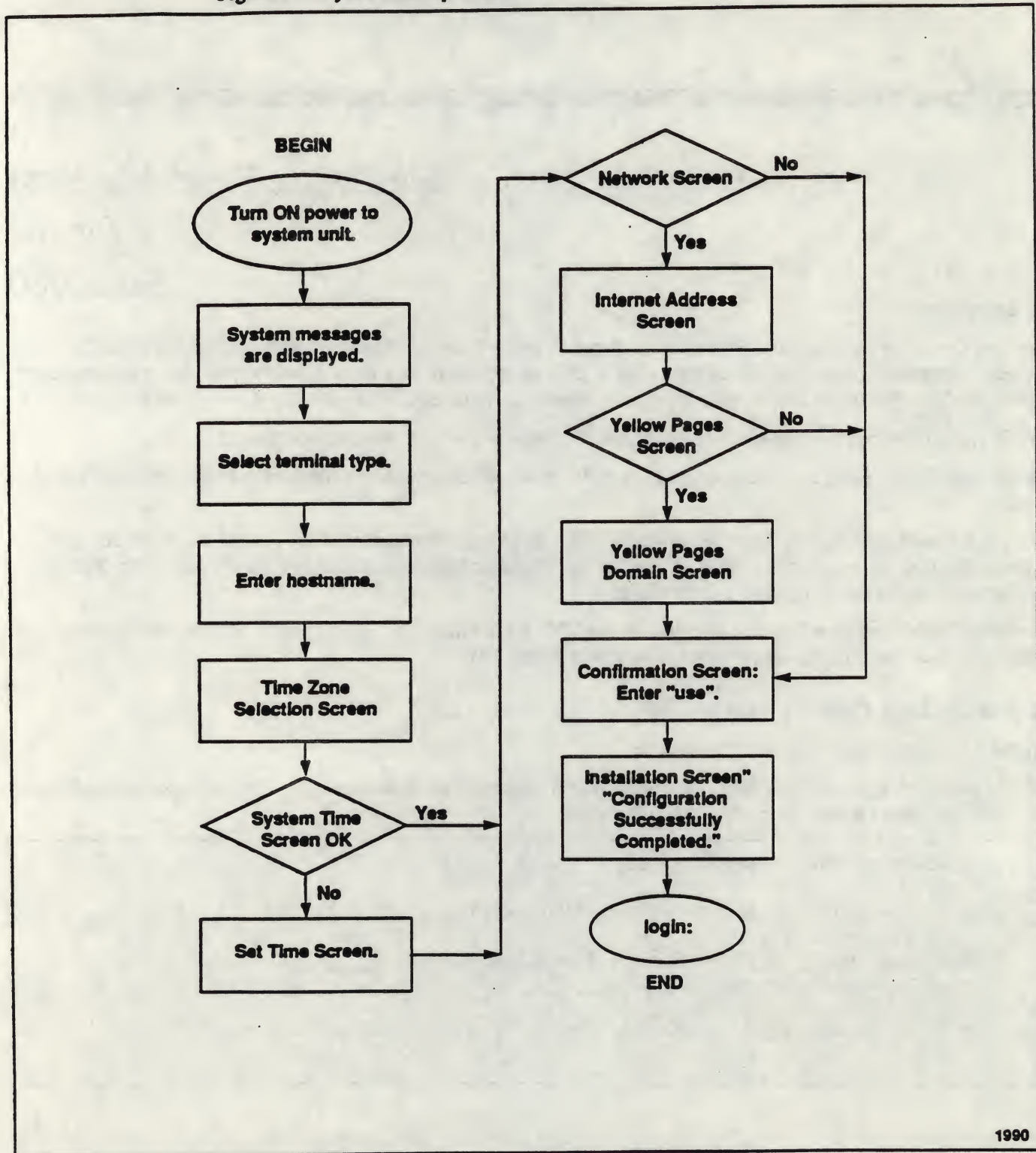
ROM Rev \_\_, \_\_ MB memory installed, Serial #\_\_

Ethernet address \_\_:\_\_:\_\_:\_\_:\_\_

Auto-boot in progress



Figure 1 System Startup Procedure



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When the autoboot is complete, the terminal menu will appear on the screen:

Select your terminal type:

- 1) Televideo 925
- 2) Wyse Model 50
- 3) Sun Workstation
- 4) Other

>>

If the workstation does not display the banner screen and the preceding menu when you power up, your system may have failed the power-up test. Refer to the *Sun-3/80 Installation Manual*. Otherwise, select the appropriate terminal from the TERMINAL MENU and press **[Return]**. The system will display the HOSTNAME SCREEN:

#### HOSTNAME SCREEN

Choose a hostname for your machine for identification purposes. If your machine is on a network, its hostname must be unique to that network. If you're not sure about what to name your machine, consult your System Administrator.

hostname: noname

**NOTE** The *hostname* identifies the Sun-3/80 system. Use any alphanumeric combination. Hostnames are limited to MAXHOSTNAMELEN (from <sys/param.h>) characters. A maximum of 64 characters is permitted, but the current limit is 32 characters because of a software bug.

1. Delete "noname", enter your Sun-3/80 hostname, and press **[Return]**. To specify the hostname *gdw*, for example:

#### HOSTNAME SCREEN

Choose a hostname for your machine for identification purposes. If your machine is on a network, its hostname must be unique to that network. If you're not sure about what to name your machine, consult your System Administrator.

hostname: gdw



2. Review the time zone instructions displayed on your screen:

#### TIMEZONE SELECTION SCREEN

You must set the appropriate timezone for your workstation. Below are some major time zone categories; select one to display a screen of time zone names for that region. Use the return key to move the cursor. Use 'x' or 'X' to select your choice.

```
* current selection -- PST8PDT
x * / United States
  * / Canada
  * / Mexico
  * / South America
  * / Europe
  * / Asia
  * / Australia and New Zealand
  * / Greenwich Mean Time
```

3. When the selected time zone screen appears, press **[Return]** to move the cursor to the desired time zone and type x. The SYSTEM TIME SCREEN is displayed. To select the US/Pacific time zone, place the cursor to the left of US/Pacific, then type x, for example:

#### UNITED STATES

Please use x or X to select your choice.

| TIME ZONE AREA    | AREA                              |
|-------------------|-----------------------------------|
| US/Eastern        | Eastern time zone, USA            |
| US/Central        | Central time zone, USA            |
| x US/Pacific      | Pacific time zone, USA            |
| US/Pacific - New  | Pacific time zone, USA            |
|                   | with proposed changes to Daylight |
|                   | Savings Time near election time   |
| US/Yukon          | Yukon time zone, USA              |
| US/East - Indiana | Eastern time zone, USA            |
| US/Hawaii         | Hawaii                            |

Return to Time Zone Category Screen



### SYSTEM TIME SCREEN

Below is the system's current notion of the time. If it is correct, enter 'y'. If it is not, enter 'n' and be prepared to enter the correct time.  
Is 'day/date/time/year/zone' the correct time [y/n]:

4. Review the SYSTEM TIME SCREEN for accuracy. If the screen shows the correct time and date, type y and press **[Return]** to confirm. If the screen shows the wrong date or time, type n and press **[Return]** to display the SET TIME SCREEN. After you reset the time the SYSTEM TIME SCREEN is redisplayed for confirmation.
5. After the time has been confirmed, the NETWORK SCREEN appears:

### NETWORK SCREEN

If your machine is attached to a network (you must have plugged the Ethernet cable into the back of the machine), you will need to supply some additional information for your machine to be recognized on the network.

Will this workstation be attached to a network? [y/n]

6. If you enter y and press **[Return]** in response to the NETWORK SCREEN, the INTERNET ADDRESS SCREEN appears (refer to Section 3). If you type n and press **[Return]** the CONFIRMATION SCREEN appears:

### CONFIRMATION SCREEN

Hostname : gdw  
Timezone : US/Pacific  
<non-networked workstation>

Use this information? [use/reenter/abort] : u

If you press **[Return]** the system confirms the standalone configuration information that you have chosen for your machine on the INSTALLATION SCREEN, then automatically completes the configuration process, reboots, and the login prompt appears.



### INSTALLATION SCREEN

```

-----
Hostname      : nevada
Timezone      : US/Pacific
<non-networked workstation>

Completed configuration of gdw

...

Configuration successfully completed.
Automatic reboot in progress ...

...

gdw login:

```

The system is ready now for you to set up a user account as directed in the *Sun System and Network Administration Manual*. After you have set up a user account, see the *Sun System User's Guide*.

### 3. Network Setup

If you answered *y* when the *NETWORK SCREEN* was displayed, the *INTERNET ADDRESS SCREEN* appears:

### INTERNET ADDRESS SCREEN

```

-----
Internet address refers to a number used by networking software to
find and identify your machine. Internet addresses are constructed
of four numbers between 0 and 255 separated by periods, e.g.
192.9.200.1. Your machine's Internet address must be unique and
should be assigned to your machine by your System Administrator.

```

1. After the network address is entered, the *YELLOW PAGES SCREEN* appears:

### YELLOW PAGES SCREEN

```

-----
Yellow Pages provides a central source for your machine to obtain
useful information about other machines on your network. If your
site provides Yellow Pages, answering 'yes' will make you a Yellow
Pages client.

```

Will this workstation be using Yellow Pages [y/n]:

2. If you type *y* and press **(Return)** the *YELLOW PAGES DOMAIN* screen appears. If you type *n* and press **(Return)** the confirmation screen appears (see Step 3).



## YELLOW PAGES DOMAIN SCREEN

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If you are using Yellow Pages services, you must specify your yellow pages domain name. If you don't know the name of the your yellow pages domain name, consult your System Administrator.

domain name: noname

3. After you have entered the domain name and pressed **[Return]** the confirmation screen displays the configuration information that you have chosen for your machine and allows you to use it, modify it or abort.

## CONFIRMATION SCREEN

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Hostname : gdw  
 Timezone : US/Pacific  
 Internet Address :xx.x.xx.xx  
 Yellow Pages client of n.n.n domain

Use this information? [use/reenter/abort] : █

If you press **[Return]** the system verifies the configuration information that you have chosen for your machine on the INSTALLATION SCREEN, then automatically completes the configuration process, reboots, and the login prompt appears.

## INSTALLATION SCREEN

-----

Hostname : nevada  
 Timezone : US/Pacific  
 Internet Address :xx.x.xx.xx  
 Yellow Pages client of n.n.n domain

Completed configuration of gdw

---

Configuration successfully completed.  
 Automatic reboot in progress ...

---

gdw login:

The network is ready now for you to log in as root and set up user accounts (see the *Sun System Network and Administration Manual*).. If you all ready have a user account, see the Sun System User's Guide.



#### 4. Unconfiguring the System

If your system configuration does not work or you make mistake during the configuration procedure, you can unconfigure the system as follows:

1. Stop the system by pressing: **[Stop]-[a]**.
2. Reboot the system single-user by typing:

```
>b sd (0,18,0) -s
```

3. When the **#** prompt appears enter:

```
/usr/etc/install/script/sys-unconfig
```

4. The following message appears:

This program will unconfigure your system. It will cause the system to revert to a "blank" system -- it will not have a name or know about other machines or networks.

Do you wish to continue (y/n)?

5. Enter y. The system responds:

System unconfiguration complete.

Do you wish to shutdown the system at this time (y/n)?

6. Enter y. This halts the system and returns you to the monitor. You can then reboot the system by typing

**> b sd(0,18, 0)** or just **b** if the system is set to boot from SD6. After the system boots up you can repeat the procedures in paragraph 2 and 3 (if applicable) to configure your system.

#### 5. Restoring the Preloaded Disk

If the contents of the preloaded disk are destroyed, restore the disk by installing the following software categories as directed in *Installing the SunOS*:

```
root
usr
kvm
Networking
SunView_Users
SunView_Demos
Text
Install
Suncore
System_V
Demo
```

You will need a complete set of full-install tapes for the Sun 3x architecture to do this.





## 6. MG3 High Resolution Frame Buffer Installation

Figure 2 shows the outline of the MG3 High Resolution Monochrome Frame Buffer and Power Converter.

Figure 2 *MG3 High Resolution Monochrome Frame Buffer and Power Converter*

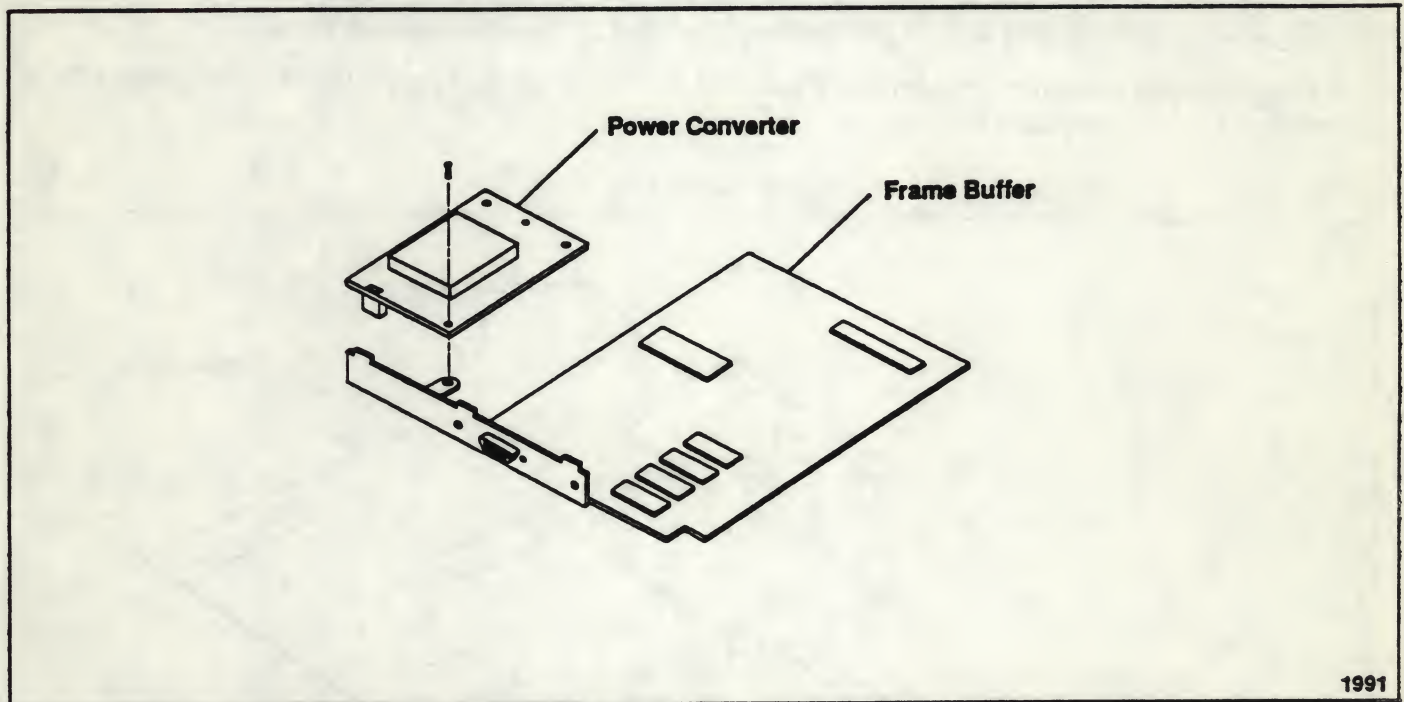
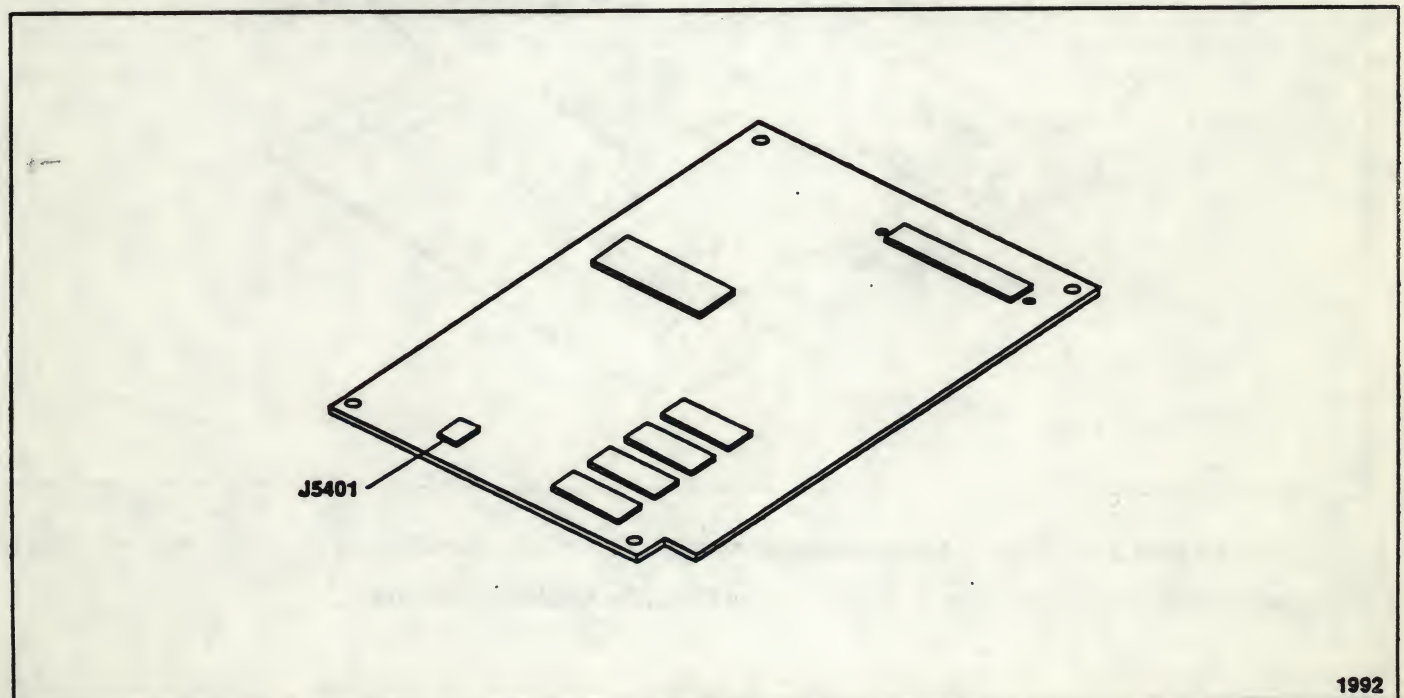


Figure 3 *Jumper Location*



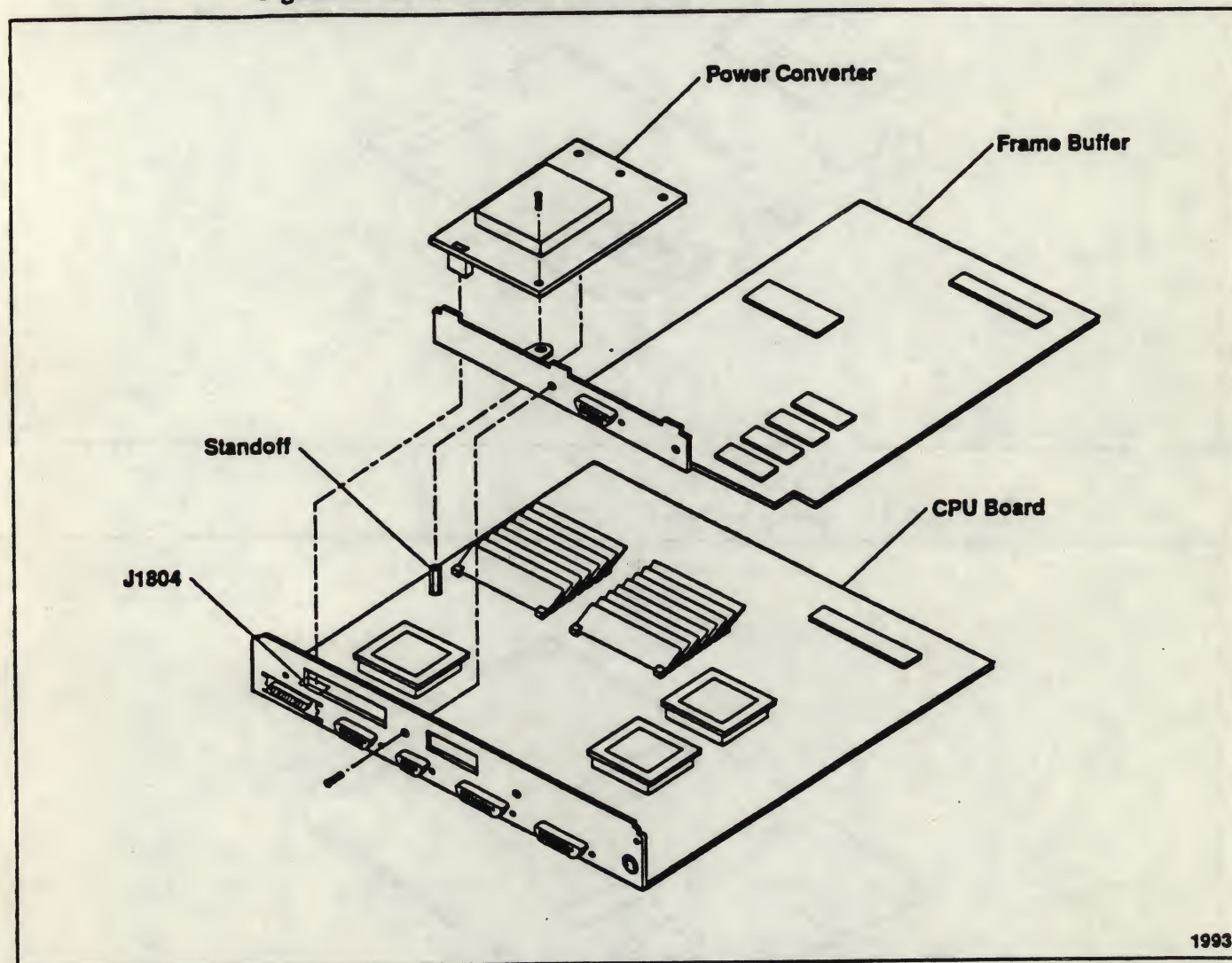


To install the Frame Buffer board, follow the frame buffer installation procedures provided in the *Sun-3/80 Installation Manual*. After the board is installed, check to ensure the Jumper J5401 is installed to permit high resolution operation (see Figure 3).

To install the Power Converter:

1. Insert the standoff provided in the Frame Buffer kit into the CPU board as shown in Figure 4.
2. Align the power Converter board with the standoff on the CPU board and plug the Power Converter into J1804 on the CPU board as shown in Figure 4.

Figure 4 Power Converter Installation



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3. Secure the Power Converter to the connector panel on the Frame Buffer board using the screw provided in the kit. Complete the installation procedure as described in the *Sun-3/80 Installation Manual*.